

PUBLICATIONS AND INVITED LECTURES (K. W. Weiler)

I. Scientific Articles

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1. One-Dimensional Polarization Distributions Over Four Supernova Remnants at 1418 MHz; Seielstad, G. A. & Weiler, K. W. 1968, ApJ 154, 817
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3. East-West Linear Polarization Distributions of Radio Galaxies at 1418 MHz; Seielstad, G. A. & Weiler, K. W. 1969, ApJ Suppl 18, No. 158

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4. Measurements of the Deflection of 9.602-GHz Radiation from 3C279 in the Solar Gravitational Field; Seielstad, G. A., Sramek, R. A., & Weiler, K. W. 1970, Phys Rev Lett 24, 1373

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5. Synthesis of the Polarization Properties of 3C10 & 3C58 at 1420 & 2880 MHz; Weiler, K. W. & Seielstad, G. A. 1971, ApJ 163, 455
6. Dual-Frequency Orthogonal Strip Distributions of Linearly Polarized & Total Radiation in Eight Extra-Galactic Radio Sources; Seielstad, G. A. & Weiler, K. W. 1971, AJ 76, 211
7. Circular Polarization of Quasars at 21 cm; Conway, R. G., Gilbert, J. A., Raimond, E., & Weiler, K. W. 1971, MNRAS 152, 1P
8. Pulsar CP0328 at 1420 MHz; Cole, T. W. & Weiler, K. W. 1971, Nature Phys Sci 230, 114

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9. A Model of the Crab Nebula Derived from Dual-Frequency Radio Measurements; Weiler, K. W. 1972, A&A 21, 393

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13. A Model of the Crab Nebula Derived from Dual-Frequency Radio Measurements; Weiler, K. W. 1974, Proc. First European Astronomical Meeting on Galaxies & Relativistic Astrophysics, 4 - 9 Sept. 1972, Vol. 3, Springer Verlag, Berlin
14. The Study of Circular Polarization in Synchrotron Continuum Radio Sources; Weiler, K. W. 1974, Proc. Second European Regional Meeting in Astronomy, Memoria della Societa Astronomica Italiana 45, 573
15. Relativiteitstheorieen Getest; Israel, F. P. & Weiler, K. W. 1974, Intermediair 20, 55

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16. A Measurement of Circular Polarization in the Crab Nebula at 1415 MHz; Weiler, K. W. 1975, Nature 253, 24
17. A Study of the Variable Radio Source BL Lacertae in Total Intensity & Linear & Circular Polarization; Ekers, R. D., Weiler, K. W., & Hulst, J. M. van der 1975, A&A 38, 67
18. A Dual Frequency Measurement of the Solar Gravitational Microwave Deflection; Weiler, K. W., Ekers, R., Raimond, E., & Wellington, K. J. 1975, Phys Rev Lett 35, 134
19. An Improved Measurement of the Solar Gravitational Microwave Deflection; Weiler, K. W. 1975, Ann New York Acad of Sci 262, 493

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20. The Brightness & Polarization Structure of the Suspected Supernova Remnant 3C58 at Centimeter Wavelengths; Wilson, A. S. & Weiler, K. W. 1976, A&A 49, 357
21. G21.5-0.9 -- A Supernova Remnant Resembling the Crab Nebula; Wilson, A. S. & Weiler, K. W. 1976, A&A 53, 89

22. Aperture Synthesis Observations of Circular Polarization: I Methods & Their Application to the Observation of Unresolved Sources at 1.4 GHz; Weiler, K. W. & Raimond, E. 1976, A&A 52, 397
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25. A Search for Radio Emission from the Calar Alto Infrared Objects; Weiler, K. W. & Wielebinski, R. 1977, A&A 55, 453
26. High Accuracy Measurements of Linear & Circular Polarization at 49 cm; Weiler, K. W. & Wilson, A. S. 1977, A&A 58, 17
27. A High-Resolution Investigation of the Shell Source G55.7+3.4 at 610 & 1415 MHz; Goss, W. M., Schwarz, U. J., Siddesh, S. G., & Weiler, K. W. 1977, A&A 61, 93
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29. 609 MHz Aperture Synthesis Observations of S104; Weiler, K. W. & Shaver, P. A. 1978, A&A 65, 305
30. Total Intensity & Polarization Distributions of the Supernova Remnant G74.9+1.2 at 6, 21, & 49 Centimeters; Weiler, K. W. & Shaver, P. A. 1978, A&A 70, 389
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41. Vela X & the Evolution of Plerions; Weiler, K. W. & Panagia, N. 1980, A&A 90, 269
42. Circular Polarization as a Probe of Radio Sources (High Accuracy Polarization Measurements at 49 cm); Weiler, K. W. & de Pater, I. 1980, A&A 91, 41
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49. Linear Polarization Measurements at 11cm; Parma, P. & Weiler, K. W. 1981, A&A 96, 412
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 33. Supernova 1993J in NGC 3031; Van Dyk, S. D., Nguyen, H.-A., Weiler, K. W., Sramek, R. A., Rupen, M. P., & Panagia, N. 1993, IAUC 5828
 34. Supernova 1993J in NGC 3031; Numerous co-authors 1993, IAUC 5914
 35. Supernova 1993J -- Star of the 1990's; Weiler, K. W. 1993, BAAS 25, 1291
 36. Radio Continuum Mapping of the Spiral Galaxy NGC 6946; Hyman, S. D., Van Dyk, S. D., Weiler, K. W., Sramek, R. A., & Virden, R. E. 1993, BAAS 25, 1322
 37. An Update on the Radio Emission from SN1993J in M81; Van Dyk, S. D., Weiler, K. W., Sramek, R. A., Rupen, M. P., & Panagia, N. 1993, BAAS 25, 1339
 38. VLBI Observations of Supernova 1993J; Numerous co-authors 1993, BAAS 25, 1339
 39. Is the Duck an Interacting Composite?; Weiler, K. W., Kassim, N. E., & Frail, D. A. 1993, BAAS 25, 1421
 40. ROSAT Observations of Galactic SNRs as Distance Indicators; Kassim, N. E., Van Dyk, S. D., Hertz, P., & Weiler, K. W. 1993, BAAS 25, 1442
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41. Supernova 1994I in NGC5194; Rupen, M. P., Sramek, R. A., Van Dyk, S. D., Weiler, K. W. & Panagia, N. 1994, IAUC 5963
 42. Supernova 1994I in NGC5194; Sramek, R. A., Rupen, M. P., Van Dyk, S. D., Weiler, K. W. & Panagia, N. 1994, IAUC 5966
 43. Supernova 1994I in NGC5194; Van Dyk, S. D., Weiler, K. W., Panagia, N., Rupen, M. P., & Sramek, R. A. 1994, IAUC 5979
 44. Supernova 1968D in NGC 6946; Van Dyk, S. D., Hyman, S. D., Sramek, R. A., & Weiler, K. W. 1994, IAUC 6045
 45. Radio Supernovae; Sramek, R., Rupen, M., Van Dyk, S., Weiler, K., & Panagia, N. 1994, BAAS 26, 969
 46. Radio Supernovae as Distance Indicators; Weiler, K. W., Van Dyk, S. D., Sramek, R. A., & Panagia, N. 1994, BAAS 26, 1362
 47. Radio Continuum Mapping of the Spiral Galaxy NGC 4321; Hyman, S. D., Weiler, K. W., Van Dyk, S. D., Sramek, R. A., & Wenhui, L. 1994, BAAS 26, 1498
 48. Radio Observations of Supernova 1994I in M51; Rupen, M. P., Sramek, R. A., Weiler, K. W., Panagia, N., & Van Dyk, S. D. 1994, BAAS 26, 1361
- 1995**
49. Supernova 1993J in NGC 3031; Montes, M. J., Kassim, N. E., Weiler, K. W., Sramek, R. A., & Van Dyk, S. D. 1995, IAUC 6273
 50. Full Sky Imaging at Low Radio Frequencies; Jones, D. L., Marsh, K. A., Mahoney, M. J., Kuiper, T. B. H., Linfield, R. P., Preston, R. A., Unwin, S. C., Shepherd, M. C., Erickson, W. C., & Weiler, K. W. 1995, BAAS 27, 1385
- 1996**

51. Low Frequency Radio Astronomy in Earth Orbit and on the Moon; Weiler, K. W. 1996, URSI Program & Abstracts, National Radio Science Meeting, 9-13 Jan. 1996, p. 331
52. Supernova 1992ad in NGC 4411B; Van Dyk, S. D., Sramek, R. A., Weiler, K. W., Montes, M. J., & Panagia, N. 1996, IAUC 6378
53. Supernova 1995N in MCG -02-38-017; Van Dyk, S. D., Sramek, R. A., Weiler, K. W., Montes, M. J., & Panagia, N. 1996, IAUC 6386
54. Supernova 1996N in NGC 1398; Van Dyk, S. D., Sramek, R. A., Weiler, K. W., Montes, M. J., & Panagia, N. 1996, IAUC 6375
55. Low Frequency Radio Astronomy from Space; Weiler, K. W. & Jones, D. 1996, BAAS, AAS 188, 9-13 Jun. 1996, Madison, WI, late paper
56. Radio Continuum Mapping of the Spiral Galaxy NGC 4258; Calle, D., Hyman, S. D., Weiler, K. W., Van Dyk, S. D., & Sramek, R. A. 1996, BAAS 28, 824
57. Supernova 1996cb in NGC 3510; Van Dyk, S. D., Sramek, R. A., Montes, M. J., Weiler, K. W., & Panagia, N. 1996, IAUC 6528

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58. An HII Region Associated with Supernova 1978K?; Montes, M. J. & Weiler, K. W. 1997, BAAS, AAS 189, 12-16 Jan. 1997, Toronto, CA, #45.03
59. Radio Evidence for Rapid Presupernova Stellar Evolution; Weiler, K. W., Van Dyk, S., D., Montes, M. J., Sramek, R. A., & Panagia, N. 1997, BAAS 29, 1268

1998

60. The Current Status of Low Frequency Radio Astronomy from Space; Kaiser, M. L. & Weiler, K. W. 1998, "AGU Chapman Conference on Space-Based Radio Observations at Long Wavelengths," 19-23 October 1998, Paris, France
61. The Potential of Long Wavelength Radio Astronomy; Weiler, K. W. 1998, "AGU Chapman Conference on Space-Based Radio Observations at Long Wavelengths," 19-23 October 1998, Paris, France
62. Supernova 1997eg in NGC 5012; Lacey, C. K., Weiler, K. W., Sramek, R. A., & Van Dyk, S. D. 1998, IAUC 7068
63. Radio Variability of the Active Nucleus of M81; Sramek, R. A., Ho, L. C., Van Dyk, S. D., Pooley, G. G., & Weiler, K. W. 1998, AAS 193, BAAS 30, 1176

1999

64. Low Frequency Astrophysics from Space; Perley, R. A., Lacey, C. K., Jones, D. L., Weiler, K. W., Kaiser, M. L., & Allen, R. J. 1999, BAAS AAS 194 #08.16, 30 May – 3 June 1999
65. Radio Imaging of the Sun from Space; Rodriguez, P., Kassim, N. E., Weiler, K. W., Kaiser, M. L., Reiner, M. J., MacDowall, R. A., Jones, D. L., Unwin, S. C., Kuiper, T. B., & Gopalswamy, N. 1999, BAAS AAS 194 #76.04, 30 May – 3 June 1999
66. Long Term Evolution of Radio SNe: SN 1988Z & SN 1981K; Lacey, C. K., Weiler, K. W., Van Dyk, S. D., & Sramek, R. A. 1999, BAAS AAS 194 #86.05, 30 May – 3 June 1999

V. Books

1. The WSRT Observers Handbook; Weiler, K. W., Woltringh, J. J. H., & Akker, P. van den 1972, NFRA, April 1972; Revised & extended, June 1973
2. Westerbork Synthesis Radio Telescope Users Manual; A. Weiler, K. W. -- Chapter 4 -- Polarization Measurements with the WSRT; B. Woltringh, J. J. H. & Weiler, K. W. -- Section 8.13 -- Cross Cuts Through Synthesized Beam Patterns 1980, NFRA, A. G. Willis & H. C. Kahlman (eds.)
3. Radio Astronomy From Space; Weiler, K. W. (ed.) 1987, Proc. NRAO Green Bank Workshop, 30 Sep. - 2 Oct. 1986, Workshop 18
4. Supernovae; Sramek, R. A. & Weiler, K. W. 1990, Chapter 4 -- Radio Supernovae, Springer-Verlag, A. Petcheck (ed.)
5. Low Frequency Astrophysics From Space; Kassim, N. E. & Weiler, K. W. (eds.) 1990, Proc. Crystal City, VA Workshop held from 7-9 Jan. 1990, Springer-Verlag Lecture Notes in Phys, No. 362
6. Space-Based Radio Observations at Long Wavelengths; Stone, R. G., Weiler, K. W., Goldstein, M., & Bougeret, J-

L (eds.) 2000, AGU Monograph from Chapman Conf. held 19-23 October 1998, Paris, France

VI. Patents

1. Electronic Breaker Points for the Ignition System of a Gasoline Engine; Weiler, K. W. 1978, U.S. Patent No. 4084566

VII. Conferences Organized

1. Workshop on "The Crab Nebula & Related Supernova Remnants"; 11-12 October 1984; George Mason University, Vienna, VA; Member of Scientific Organizing Committee
2. Workshop on "Radio Astronomy From Space"; 30 Sep. - 2 Oct. 1986; NRAO, Green Bank, WV; Principal initiator & organizer
3. Workshop on "Low Frequency (1-30 MHz) Astrophysics From Space"; 7-9 January 1990; Crystal City, VA; Principal initiator & co-organizer
4. CTIO/ESO/LCO Workshop "SN1987A: Ten Years After"; 22-28 Feb. 1997, La Serena, Chile; Member of Scientific Organizing Committee
5. AGU Chapman Conference "Space-Based Radio Observations at Long Wavelengths"; 19-23 October 1998; Paris, France; Member of Scientific Organizing Committee

VIII. Invited Lectures

1974

1. Polarization Measurement Techniques in Radio Astronomy; University of Groningen, Mar. 1974, Groningen, The Netherlands; Two hours of lectures

2. Supernova Remnants; Stockholm Observatory, Apr. - May 1974, Saltsjobaden, Sweden, Five hours of lectures

1978

3. Experimental Tests of General Relativity; International School of Geodesy, 17 May - 3 Jun. 1978, Erice, Italy

1979

4. Crab-Like Supernova Remnants; XXIII Herstmonceux Conf. on "Cataclysmic Variables," 2-3 Apr. 1979, Herstmonceux, England
5. Plerions, Kelifons, & Associated Objects; Workshop on "Galactic Compact Objects," 2-6 Apr. 1979, Bad Honnef, Germany
6. Supernovae & Supernova Remnants; European Space Agency Summer School on "The Formation & Evolution of Stars," 16-27 Jul. 1979, Alpbach, Austria; Two hours of lectures

1982

7. Supernova Remnants Resembling the Crab Nebula; IAU Symp. 101 on "Supernova Remnants & Their X-Ray Emission," 30 Aug. - 2 Sept. 1982, Venice, Italy

1984

8. Radio Emission from Type II Supernovae; Workshop on "Supernovae as Distance Indicators," 27-28 Sep. 1984, Harvard-Smithsonian Center for Astrophysics, Boston, MA
9. Radio Studies of Plerions; Workshop on "The Crab Nebula & Related Supernova Remnants," 11-12 Oct. 1984, George Mason University, Vienna, VA
10. Radio & X-Ray Observations of Extragalactic Supernovae; Workshop on "Supernovae, Their Progenitors & Remnants," 29 Oct. - 2 Nov. 1984, Indian Academy of Sciences Golden Jubilee Celebration, Bangalore, India; Two hours of lectures
11. "Combination" & "Plerionic" Supernova Remnants; Workshop on "Supernovae, Their Progenitors & Remnants," 29 Oct. - 2 Nov. 1984, Indian Academy of Sciences Golden Jubilee Celebration, Bangalore, India

1985

12. Radio Emission from Type II Supernovae; Workshop on "The Origins of Supernovae," 10-30 Jun. 1985, Aspen Center for Physics, Aspen, CO

13. VLBI Observations of SN 1979C & the Determination of H₀; Workshop on "The Origins of Supernovae," 10-30 Jun. 1985, Aspen Center for Physics, Aspen, CO
 14. Observations of Radio Supernovae; NATO Advanced Study Institute on "High Energy Phenomena Around Collapsed Stars," 2-13 Sep. 1985, Institut D'Etudes Scientifiques de Cargese, Cargese, Corsica, France
- 1986**
15. Radio Astronomy & Cosmic Rays; International School of "Cosmic Ray Astrophysics on Genesis & Propagation of Cosmic Rays," 1-9 Jun. 1986, Ettore Majorana Centre for Scientific Culture, Erice, Sicily, Italy; Two hours of lectures
- 1987**
16. A Proposal for a Low Frequency Space Array; International Union of Radio Science (URSI), 24 Aug. - 3 Sep. 1987, Tel Aviv, Israel
 17. Superstars: From Oracle Bones to (Supernova 1987A) Shelton; E. O. Hulbert Colloquium, 22 October 1987, Naval Research Laboratory, Washington, DC
- 1990**
18. A Low Frequency Space Array; Low Frequency Astrophysics from Space Workshop, 7-9 Jan. 1990, Crystal City, VA
 19. The Observation & Interpretation of Radio Supernovae in Nearby Galaxies; Workshop on "The Interpretation of Modern Synthesis Obs. of Spiral Galaxies," 11-15 Mar. 1990, Albuquerque, NM
 20. Circular Polarization in Radio Astronomy; XXIII General Assembly of the International Union of Radio Science (URSI), 28 Aug. - 5 Sep. 1990, Prague, Czechoslovakia
 21. Radio Emission from Supernovae: Observation & Interpretation; ESO-EIPC Workshop on "SN1987A & Other Supernovae," 17-22 Sep. 1990, Elba, Italy
- 1993**
22. Radio & X-Ray Emission from Supernovae; IAU Colloq No. 145 on "Supernovae & Supernova Remnants," 24-29 May 1993, Xian, China
 23. SN1993J & the Radio Emission from Supernovae; 34th Herstmonceux Conf. "Circumstellar Media in the Late Stages of Stellar Evolution," 14 Jul. 1993, Cambridge, England
 24. The Star of Our Decade, SN1993J; E. O. Hulbert Colloquium, Naval Research Laboratory, 2 Dec. 1993, Washington, DC
- 1994**
25. Low Frequency Radio Astronomy in Space; URSI National Radio Science Meeting, 7 Jan. 1994, Boulder, CO
 26. SN1993J: Star of the 1990's; 183rd American Astron. Soc. Meeting, 12 Jan. 1994, Washington, DC
- 1995**
27. What We Can Learn from Radio Light Curves of Supernovae; Meeting on "Radio Emission from the Sun & Stars," 3-7 Jul. 1995, Barcelona, Spain
- 1996**
28. Low Frequency Radio Astronomy in Earth Orbit & on the Moon; National Radio Science Meeting (URSI), 9-13 Jan. 1996, Boulder, CO
 29. The Astronomical Low Frequency Array (ALFA); National Radio Science Meeting (URSI), 9-13 Jan. 1996, Boulder, CO
 30. A Lunar Orbiting Low frequency Radio Astronomy Observatory; National Radio Science Meeting (URSI), 9-13 Jan. 1996, Boulder, CO
 31. Radio Supernovae as Distance Indicators; Meeting on "The Extragalactic Distance Scale," 7-10 May 1996, STScI, Baltimore, MD
 32. Low Frequency Radio Astronomy from Space; European Geophysical Society Meeting, 6-10 May 1996, The Hague, The Netherlands
- 1997**
33. SN 1987A and Other Type II Radio Supernovae; Conf. "SN 1987A: Ten Years After," 22-28 Feb. 1997, La Serena, Chile
 34. A Review of Radio Supernovae; Minnesota Astron. Centennial SNR Meeting "10⁵¹ ergs: The Evolution of Shell SNRs," (presented by M. J. Montes), 23-26 Mar. 1997, Minneapolis, MN
 35. Low Frequency Radio Astronomy From the Moon; IAU XXIII General Assembly Comm. 44 Working Group Joint Discussion "Astronomy from the Moon," (presented by D. L. Jones), 18-30 Aug. 1997, Kyoto, Japan

36. What Radio Observations Can Tell Us About Supernovae; Institute for Theoretical Physics (IPT) Conference "Supernova Explosions: Their Causes and Consequences," 5-9 Aug. 1997, Santa Barbara, CA
37. The Need for High Sensitivity for RSNe Studies; LTWG/1kT Workshop, 15-18 Dec 1997, Sydney, Australia
38. Radio Astronomy in Space, LTWG/1kT Workshop, 15-18 Dec 1997, Sydney, Australia

1998

39. Tutorial: The Potential of Long Wavelength Radio Astronomy; AGU Chapman Conference "Space-Based Radio Observations at Long Wavelengths," 19-23 Oct. 1998, Paris, France
40. Review: The Current Status of Low-Frequency Radio Astronomy from Space; AGU Chapman Conference "Space-Based Radio Observations at Long Wavelengths," 19-23 Oct. 1998, Paris, France

1999

41. Radio Observations of Supernovae; STScI May 1999 Symposium "The Largest Explosions Since the Big Bang: Supernovae & Gamma Ray Bursts," 3 – 6 May 1999, Baltimore, MD
42. Opening a New Window on the Universe: High Resolution, Long Wavelength Radio Astronomy from the Ground (LOFAR) and from Space (ALFA); "Perspectives on Radio Astronomy: Scientific Imperatives at cm & m Wavelengths," 7 – 9 April 1999, Amsterdam, NL
43. Radio Supernovae and the Square Kilometer Array; "Perspectives on Radio Astronomy: Scientific Imperatives at cm & m Wavelengths," 7 – 9 April 1999, Amsterdam, NL